## II. AMENDMENT TO THE CLAIMS

- 1. (Previously Presented) A structure of optically effective diffraction security elements with a metallic reflection layer, comprising a target oriented electric code of data by additionally applied beam, grid, bow and/or circularly shaped electrically conductive structures with steep edges towards adjacent non-metallized structures in different planes, a line thickness of the smallest electrically conductive structure which may be examined being less than or equal to 5 mm and non-zero.
- 2. (Previously Presented) The structure of security elements of claim 1, allowing examination of security elements, further comprising a target-oriented electric code of data by additionally applied beam, grid, bow and/or circularly shaped metallized structures with steep edges towards adjacent non-metallized structures in different planes, a line width of the smallest metallized structure which may be examined being less than or equal to 5 mm, but non-zero.
- 3. (Previously Presented) The structure of security elements of claim 1, wherein said different electrically conductive structures possess different electric conductivities.
- 4. (Previously Presented) The structure of security elements of claim 1, wherein at least two structures within a security element possess different application thicknesses.
- 5. (Previously Presented) The structure of security elements of claim 1, wherein a width of an electrically conductive layer of constant electric conductivity corresponds to a width of at least two electrodes of an examination apparatus.
- 6. (Previously Presented) The structure of security elements of claim 1, wherein a distance between two electrically conductive structures of a same and/or different electric conductivity is at least 0.1 mm.

- 7. (Previously Presented) The structure of security elements of claim 1, wherein said additionally applied electrically conductive structures are inks or dyes.
- 8. (Previously Presented) An apparatus for capacitive examination of documents with optically effective diffraction security elements with a metallic reflection layer, wherein a capacitively operating scanner a width of which is larger than a largest width of a document examines electrically conductive structures arranged within metallized security elements by means of a plurality of transmitting electrodes arranged in one or more rows in side by side relationship and with a receiving electrode extending along the transmitting electrodes on a same side as the document to be examined and evaluates the structures by electronic energizing and evaluation circuits arranged in the scanner for comparing a signal pattern of the document to be examined with corresponding reference signal patterns.
- 9. (Previously Presented) The apparatus of claim 8, wherein at least two adjacent electrodes are arranged electrically connected.
- 10. (Previously Presented) The apparatus of claim 9, wherein said electronic energizing circuit consists of a current source, a multiplexer, an oscillator for providing energy for the transmitting electrodes and an oscillator for energizing the multiplexer.
- 11. (Previously Presented) The apparatus of claim 8 wherein the electronic evaluation circuit consists of a current source, an amplifier, a demodulator, a comparator, a micro-processor with memory as well as filters for a suppression of extraneous and interference signals.
- 12. (Previously Presented) The apparatus of claim 8 wherein the smallest distance between two transmitting electrodes is smaller than 5 mm, and non-zero.
  - 13. (Previously Presented) The apparatus of claim 8 wherein a distance

between a transmitting electrode and the receiving electrode is at least 5 mm.

- 14. (Previously Presented) The apparatus of claim 8 wherein the apparatus is provided with a biasing device which guides the document to be examined parallel to the transmitting and receiving electrodes, biased against the scanner.
- 15. (Previously Presented) The apparatus of claim 8 wherein shafts of the document transport rollers are connected to a mass by sliding contacts.
- 16. (Previously Presented) The apparatus of claim 8 wherein the apparatus is arranged in high speed document processing machines .
- 17. (Previously Presented) The apparatus of claim 8 wherein the apparatus is arranged in a manual apparatus.
  - 18. (Canceled)